

What is claimed is:

1. A method of transmitting information:
receiving a first signal in a first protocol at a
5 first interface device;
providing a second signal corresponding to the
first signal;
changing a data structure device according to the
second signal;
10 providing a third signal to a second interface
device, the third signal corresponding to the changed
data structure device; and
providing a fourth signal corresponding to the
third signal in the second protocol.
15
2. The method of claim 1, further comprising
configuring the first interface device to receive
signals in the first protocol.
- 20 3. The method of claim 1, further comprising
configuring the second interface device to provide
signals in the second protocol.
4. The method of claim 1, further comprising
25 determining the first protocol.

5. The method of claim 1, further comprising
determining the second protocol.

6. The method of claim 1, further comprising:

5 converting the first signal to an unpackitized
digital signal;

converting the unpackitized digital signal to a
packetized digital signal; and

10 providing the packetized digital signal as the
second signal to the data structure device.

7. The method of claim 1, wherein the third signal is
a packetized digital signal, and the method further
comprises;

15 converting the third signal to an unpackitized
digital signal; and

converting the unpackitized digital signal to
provide the fourth signal.

20 8. A method of transmitting information from a first
communication pathway to a second communication pathway,
comprising:

determining a first protocol used on a first
communication pathway;

determining a second protocol used on a second communication pathway;

configuring a first interface device to accept signals carrying information in the first protocol from
5 the first communication pathway;

configuring a second interface device to send information from a data structure device to the second communication pathway via a signal in the second protocol;

10 providing a first signal along the first communication pathway to the first interface device;

providing a second signal to the data structure device, the second signal corresponding to the first signal;

15 changing the data structure device according to the second signal;

providing a third signal to the second interface device, the third signal corresponding to the changed data structure device; and

20 providing a fourth signal to the second communication pathway, the fourth signal corresponding to the third signal and being in the second protocol.

9. The method of claim 8, further comprising:

converting the first signal to an unpackitized
digital signal;

converting the unpackitized digital signal to a
packetized digital signal; and

5 providing the packetized digital signal as the
second signal to the data structure device.

10 10. The method of claim 8, wherein the third signal is
a packetized digital signal, and the method further
comprises;

converting the third signal to an unpackitized
digital signal; and

converting the unpackitized digital signal to
provide the fourth signal.

15

11. The method of claim 8, wherein the first
communication pathway is a telephony system.

12. The method of claim 11, wherein the second
20 communication pathway is a network of computers.

13. The method of claim 8, wherein the first
communication pathway is a telephony system, and the
second communication pathway is a telephony system.

25

14. The method of claim 8, wherein the first communication pathway is a network of computers, and the second communication pathway is another network of computers.

5

15. A communications device, comprising:

a first analog to digital converter;

a first segmentation and reassembly device in communication with the first analog to digital

10 converter;

a first application interface in communication with the first segmentation and reassembly device;

a data structure device in communication with the first application interface;

15 a second application interface in communication with the data structure device;

a second segmentation and reassembly device in communication with the second application interface; and

20 a second analog to digital converter in communication with the second segmentation and reassembly device.

16. The communications device of claim 15, wherein the first analog to digital converter is capable of

converting a first signal in a first protocol to an
unpacketized digital signal.

17. The communications device of claim 16, wherein the
5 second analog to digital converter is capable of
converting an unpacketized digital signal to a signal in
a second protocol.

18. The communications device of claim 15, wherein the
10 first segmentation and reassembly device is capable of
converting an unpacketized digital signal to a
packetized digital signal.

19. The communications device of claim 18, wherein the
15 second segmentation and reassembly device is capable of
converting a packetized digital signal to an
unpacketized digital signal.

20. The communications device of claim 15, wherein the
20 first application interface is capable of converting a
packetized digital signal to a signal in a protocol
according to which the data structure device is
structured.

21. The communications device of claim 20, wherein the second application interface is capable of converting a signal in a protocol according to which the data structure device is structured, to a packetized digital
5 signal.

22. The communications device of claim 15, wherein the first analog to digital converter is in communication with a telephony system.
10

23. The communications device of claim 22, wherein the second analog to digital converter is in communication with a network of computers.

24. The communications device of claim 15, wherein the first analog to digital converter is in communication with a telephony system, and the second analog to digital converter is in communication with another telephony system.
15

25. The communications device of claim 15, wherein the first analog to digital converter is in communication with a network of computers, and the second analog to digital converter is in communication with another
20 network of computers.
25

26. An information transmission device, comprising:

a data structure device;

a first configurable interface device operatively
connected between the data structure device and a first

5 one of the communication pathways to convert signals on
the first one of the communication pathways into signals
to modify the data structure device, and to accept
signals from the data structure device and convert the
signals from the data structure device into a protocol
10 of the first one of the communication pathways; and

a second configurable interface device operatively
connected between the data structure device and a second
one of the communication pathways to convert signals on
the second one of the communication pathways into
15 signals to modify the data structure device, and to
accept signals from the data structure device and
convert the signals from the data structure device into
a protocol of the second one of the communication
pathways.

20

27. The information transmission device according to
claim 26, further including a protocol determining
device operatively connected to at least one of the
communication pathways to determine the protocol of the
25 at least one of the communication pathways.

28. The information transmission device according to claim 26, wherein the first configurable interface device comprises:

5 a first analog to digital converter operatively connected to the first one of the communication pathways and capable of converting a signal in the protocol of the first one of the communication pathways to an unpackitized digital signal;

10 a first segmentation and reassembly device in communication with the first analog to digital converter and capable of converting an unpackitized digital signal to a packetized digital signal; and

15 a first application interface in communication with the first segmentation and reassembly device and in communication with the data structure device and capable of converting a packetized digital signal to a signal in a protocol according to which the data structure device is organized.

20 29. The information transmission device according to claim 26 wherein the second configurable interface device comprises:

a second application interface in communication with the data structure device and capable of converting

second segmentation and reassembly device in communication with the second application interface and capable of converting a packetized digital signal to an unpacketized digital signal; and

an analog to digital converter in communication with the second segmentation and reassembly device and capable of converting an unpacketized digital signal to a signal in the protocol of the second one of the communication pathways.